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INVENTIONS PATENTED.

No. 4899. WILLIAM T. WOOD, Mount Juliet, Ten., U. S., 28th June, 1875, for 5 years: "Lamp Extinguisher." (Éteignoir de lampe.)

Claim.—1st. The combination with the sectional interlocking jaws *f*, of an extinguisher-cap, and the wick tube *B*, of the slotted plate *D*, and guide rods *c*; 2nd. The combination with the guided and vertically movable extinguisher cap holder plate *D*, operated to extinguish the flame by springs *a*, of the angular vertically vibrating notched lever *r*; 3rd. The combination with the extinguisher cap plate *D*, springs *a*, and holding lever *G*, of the jointed rods *I*, *J*, having each a belt-shaped attachment *x*, *x*, and the latter a weight *u*, upon the lower end, adapted to be received within the body of the lamp.

No. 4900. ALFRED A. POST, New York, U. S., (Assignee of H. S. Maxim), 29th June, 1875, for 5 years: "Liquid Meter" (Hydromètre.)

Claim.—1st. A hollow shaft, made lighter than the surrounding liquid and protected from filling with water; 2nd. A hollow shaft made lighter than the surrounding liquid, and provided with two pivots, one on which it bears when a large volume of liquid is passing, and another and smaller one on which it bears when only a small volume is passing; 3rd. The combination of the plate 40, cylinder 41, and radial arms 42; 4th. The square trunk 22, having the internal, vertical webs 45; 5th. The combination of the shaft 51, air tight ground joint 54, and spring 53; 6th. The combination of the gear 34, worm-shaft 51, and the arms 49, and 50, for transmitting motion from one to the other; 7th. The gauze screen in combination with the square trunk 22, and partitions 19, and 40.

No. 4901. FREDERICK J. DAVIS, Newport, Vt., U. S., 28th June, 1875, for 5 years: "Improvements on Lasting Tools." (Perfectionnements aux outils à enformer.)

Claim.—1st. The combination of the articulated jaws *A*, having a slot or looped shank *a*, and jaw *B*, having a neck and loop *b*; 2nd. The combination of the articulated jaws *A*, *B*, with the strap *D*, for applying foot power to close the jaws.

No. 4902. HENRY HAGLE, Warwick, Ont., 28th June, 1875, for 10 years: "Improvements on Gates." (Perfectionnement des barrières.)

Claim.—The peculiar combination of lever *K*, pulley coil spring *F*, and half circle *L*.

No. 4903. JAMES S. BROOKS, Pittsburgh, Pa., U. S., 28th June, 1875, for 5 years: "Method and Device for Backing Electrotype Shells."

(Méthode et appareil d'émaillage des coquilles par la galvanoplastie.)

Claim.—1st. The method of producing finished electro-type books, consisting in securing the shell face downward between true and parallel plates, determining the size and thickness of the plate by adjustable straight edged metallic rules, constructed and adapted to give a true and finished edge, heating all to a uniform temperature, and then pouring the molten metal upon, or between the back of the shell and the upper or opposing tracing plate, as described; 2nd. The apparatus for backing electro-types consisting of hinged and swivelled plates *B*, *B*, frame *A*, slide *C*, for heating appliance, supports *a*, *a*, cross bar *a*, arms *b*, and screw *D*, and guide rules *f*; 3rd. In combination with the pans *B*, *B*, for backing electro-types, the adjustable guide rules *f*, or their equivalent.

No. 4904. JOHN C. RORICK, Wauseon, Ohio, U. S., 28th June, 1875, for 10 years: "Improvements on Butter Workers." (Perfectionnements aux machines à apprêter le beurre.)

Claim.—The breaking apparatus, arranged in an inclined position, the long plunger *K*, with its operating devices attached in rear of the hopper and the removable wire screen *D*, held to duty by the clamping bolts *a*.

No. 4905. CHARLES J. EAMES, New-York, U. S., 20th June, 1875, for 5 years: "Improvements on the Art of Reducing and Smelting Silver Ores." (Perfectionnements dans l'art de réduire et fondre les minerais d'argent.)

Claim.—The process in which hydro-carbon vapour generated under pressure with superheated steam is combined with atmospheric air under pressure, acting in combination with a furnace in which the broken ore is fed and drawn off continuously.

No. 4906. CHARLES LUNDY, East Gwillimbury, Ont., 28th June, 1875, for 5 years: "Improvement on Hay Rakes." (Perfectionnement des râtaux à cheval.)

Claim.—The shafts *B*, with the combination of sheave wheels *C*, together with the combination of clutches *D*, clutch iron *F*, the quadrants *E*, and chains *H*, connected there with, the lever *M*, and the guide iron *L*.

No. 4907. JOHN HEWITT, Grimsby, Ont., 28th June, 1875, for 5 years: "Improvements on Glossing and Fluting Irons." (Perfectionnements aux fers à repasser et à tuyauter.)

Claim.—The combination of the wire hinge *a*, lugs *d*, *d*, and pins *b*, *b*, in combination with the detachable fluting plate *B*, and glossing iron *A*.

No. 4908. ALEXANDER BEAUDRY, Boston, Mass., U. S., 28th June, 1875, for 5 years: "Improvements on Adzes and Axes." (Perfectionnements aux herminettes et aux haches.)

Claim.—1st. The handle *a*, in combination with the socket *b*, having slot holes *c*, *c*; 2nd the head *f*, with its tapering hole bevelled edges *a*, *a*, and the bevelled seat *k*, *k*; 3rd. In combination with the blade *c*, the head *f*, its concave recess *m*, and nut *k*, with its tapering projection *l*.